

Table S1: Patients clinical characteristics

Pat. no.	Age (years)	Gender	Diagnosis on ICU admission	APACHE II Score	Days on MV ¹	Sedative dose ²
Propofol study						
1	75	M	COPD- pneumonia	32	16	0.67
2	77	F	CHF	18	10	1.23
3	49	M	Tetraplegia -Sepsis	18	39	0.40
4	72	M	AECOPD	22	23	1.07
5	76	F	Sepsis	20	40	0.73
6	75	M	Myasthenia -Sepsis	22	15	0.73
7	63	M	Sepsis	15	20	0.27
8	75	F	MODS	25	22	1.18
9	73	F	Pneumonia	16	11	0.73
10	70	F	Sepsis-	22	24	1.25
11	46	M	Aspiration pneumonia	18	21	1.44
12	73	F	COPD- pneumonia	18	34	0.92
Mean ±SD	68.7 10.6	6 M, 6F		20.5 4.6	22.9 10.0	88.5 35.9
Dexmedetomidine study						
13	69	M	AECOPD	18	15	0.4
14	55	M	Multiple trauma	25	40	0.5
15	78	M	AECOPD	22	80	0.6
16	55	M	GI- chemical injury	25	16	0.4
17	62	M	Spinal cord injury	22	14	0.3
18	69	M	AECOPD	18	15	0.3
19	54	F	AECOPD	19	14	0.5
20	34	M	Multiple trauma	11	8	0.6
21	78	M	Pneumonia	21	9	0.4
22	81	F	CRF	24	15	0.3
23	65	F	AECOPD	24	14	0.4
Mean ±SD	63.6 13.8	8M, 3F		20.8 4.2	21.8 21.0	4.3 1.1
Overall Mean ±SD	66.3 12.2	12 M, 9F		20.7 4.3	22.4 15.4	N.A.

COPD; chronic obstructive pulmonary disease. AECOPD; acute exacerbation of COPD. MODS; multiple organ dysfunction syndrome. GI; gastrointestinal. CHF; congestive heart failure. M; male. F; female. ¹Days on MV correspond to days in ICU. ²Propofol: mg/kg/h, Dexmedetomidine: µg/kg/h. N.A.; not applicable.

